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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/902,056	07/09/2001	Rao Venkateswara Annapragada	VLSI-3402.DIV.1	9824	
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PHILIPS ELECTRONICS NORTH AMERICA CORPORATION INTELLECTUAL PROPERTY & STANDARDS 1109 MCKAY DRIVE, M/S-41SJ			EXAMINER .		
			SARKAR, ASOK K		
SAN JOSE, CA 95131			ART UNIT	PAPER NUMBER	
			2829		
			DATE MAIL ED: 09/27/2002	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Application No			A It 4t No		h .:					
Examiner			Application No.	•	Applicant(s)					
Examiner Act Unit				,	VENKATESWAR <i>A</i>					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Peri d for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extension of the map be available used the provisions of 3 CFR 1.136(a), in no event, however, may a reply be limitely filled. If the period for map to available used the law shall be considered timely. If the period for reply a specified above is less than lithin (70) steps, a reply within the statuloury reliminary of bring (30) steps will be considered timely. If the period for reply a specified shows the maniferation and the provision of the period for reply and the period for r					-					
Peri d for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the govisions of 37 CFR 1.35(a), in no event, however, may a reply be timely filed. Extensions of time may be available under the govisions of 37 CFR 1.35(a), in no event, however, may a reply be timely filed. Extensions of time may be available under the govisions of 37 CFR 1.35(a), in no event, however, may a reply be timely filed. Extensions of time may be available under the govisions of 37 CFR 1.35(a) and available under the statutory will reply all (a) (3) days will be considered timely. If No period for reply is specified above, the maximum statutory period will apply and will expire 31X (6) MONTHS from the mailing date of this communication. If No period for reply is specified above, the maximum statutory period will apply and will expire 31X (6) MONTHS from the mailing date of this communication. A preply received by the Office under the first the mailing date of this communication, even if firmly filed, may reduce any owner of the period of the communication. A preply received by the Office under the first the remailing date of the communication, even if firmly filed, may reduce any owner of the period of the communication is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s)						ldva a				
THE MAILING DATE OF THIS COMMUNICATION. Estancians of time may be validable under the provisions of 3 CPR 1.136(p). In no event, however, may a raply be limely filed after SX (s) MONTHS from the mailing date of this communication. It has period to prefly specified does not be considered to the communication of the provision o										
1) Responsive to communication(s) filed on 21 July 2003 . 2a) This action is FINAL. 2b This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 26.27 and 32-40 is/are pending in the application. 4a) Of the above claim(s) 37-40 is/are withdrawn from consideration. 5) Claim(s) 26.27 and 32-36 is/are rejected. 7) Claim(s) is/are allowed. 6) Claim(s) 26.27 and 32-36 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 26.27 and 32-36 is/are rejected. 7) Claim(s) is/are objected to by the Examiner. 4pplication Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 09 July 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a pro	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
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DETAILED ACTION

1. Claims 26, 27 and 32 – 36 rejected under 35 U. S.C. 102(b) as being unpatentable for reasons of record in Paper No. 13 is reproduced below:

Claim Rejections – 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 26, 27 and 32 36 are rejected under 35 U.S.C. 102(b) as being anticipated by Gnade, US 5,561,318.

Gnade teaches a wafer for a device comprising:

- a substrate 22 with reference to Fig. 1D; and
- a layer of porous nanoglass material (28 and 29) of silicon dioxide above the substrate 22 with reference to Fig. 1D, the porous material comprising:
- a first portion 28 having a baseline density (porosity 80%) associated with the porous material residing on top of the substrate and in contact with the substrate
 22 with reference to Fig. 1D;
- a second portion 29 having a density greater than the baseline density
 associated with the porous material (porosity 30%), the second portion 29
 located above the first portion 28 with reference to Fig. 1D. The high density
 portion being a densified form of the low density portion;

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a cap layer 30 of CVD derived oxide layer located above the porous material 29 with reference to Fig. 1D. All features of the figure are thoroughly described in between column 4, line 29 and column 5, line 32.

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The greater density of second portion of the porous layer 29 compared to that of the first portion 28 of the baseline density is inherent because a material having lower porosity of 30% will have greater density than the same material having higher porosity of 80%.

The densification process of second portion of the porous layer by high density

Ar plasma in claims 14 and 15 is not given any weight because of the "Product by

Process" limitation.

Note that a "product by process" claim is directed to the product per se, no matter how actually made, *In re Hirao*, 190 USPQ 15 at 17 (footnote 3). See also *In re Brown*, 173 USPQ 685; *In re Luck*, 177 USPQ 523; *In re Fessmann*, 180 USPQ 324; *In re Avery*, 186 USPQ 161; *In re Wertheim*, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); *In re Marosi et al*, 218 USPQ 289; and particularly *In re Thorpe*, 227 USPQ 964, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that applicant has the burden of proof in such cases, as the above case law makes clear.

Response to Arguments

4. The Applicant argues that Gnade fails to anticipate Applicant's claimed invention.

The reason provided by the Applicant is that Gnade builds the structure by a *wet*process whereas the Applicant's structure is built by a *dry* process. Applicant further

argues that the dry process imparts distinctive structural characteristics not anticipated

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by Gnade since Gnade uses different compositions of the wet gels to form the porous layer containing higher density layer over the low-density layer.

5. The Examiner believes that the Applicant's argument is not persuasive and points to the Applicant that Gnade's device is *indistinguishable* from the present invention due to the following reasons. First, the special structural features achievable by the dry process are not claimed. Second, although Gnade uses different compositions of the wet gels for forming the layers of two different densities, the final composition of the material is still the same. In other words, the porous layer deposited by Gnade is a single material, which is nanoporous silica.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. This application contains claims 37 - 40 directed to an invention that is independent or distinct from the invention originally claimed for the following reasons:

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The claims relate to an apparatus for making the wafer and the original presentation was a wafer.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 37 – 40 were withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

- 8. A complete reply to the final rejection must include cancelation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Asok K. Sarkar whose telephone number is 703 308 2521. The examiner can normally be reached on Monday Friday (8 AM- 5 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kammie Cuneo can be reached on 703 308 1233. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 4918.

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

Asok K. Sarkar August 19, 2003